



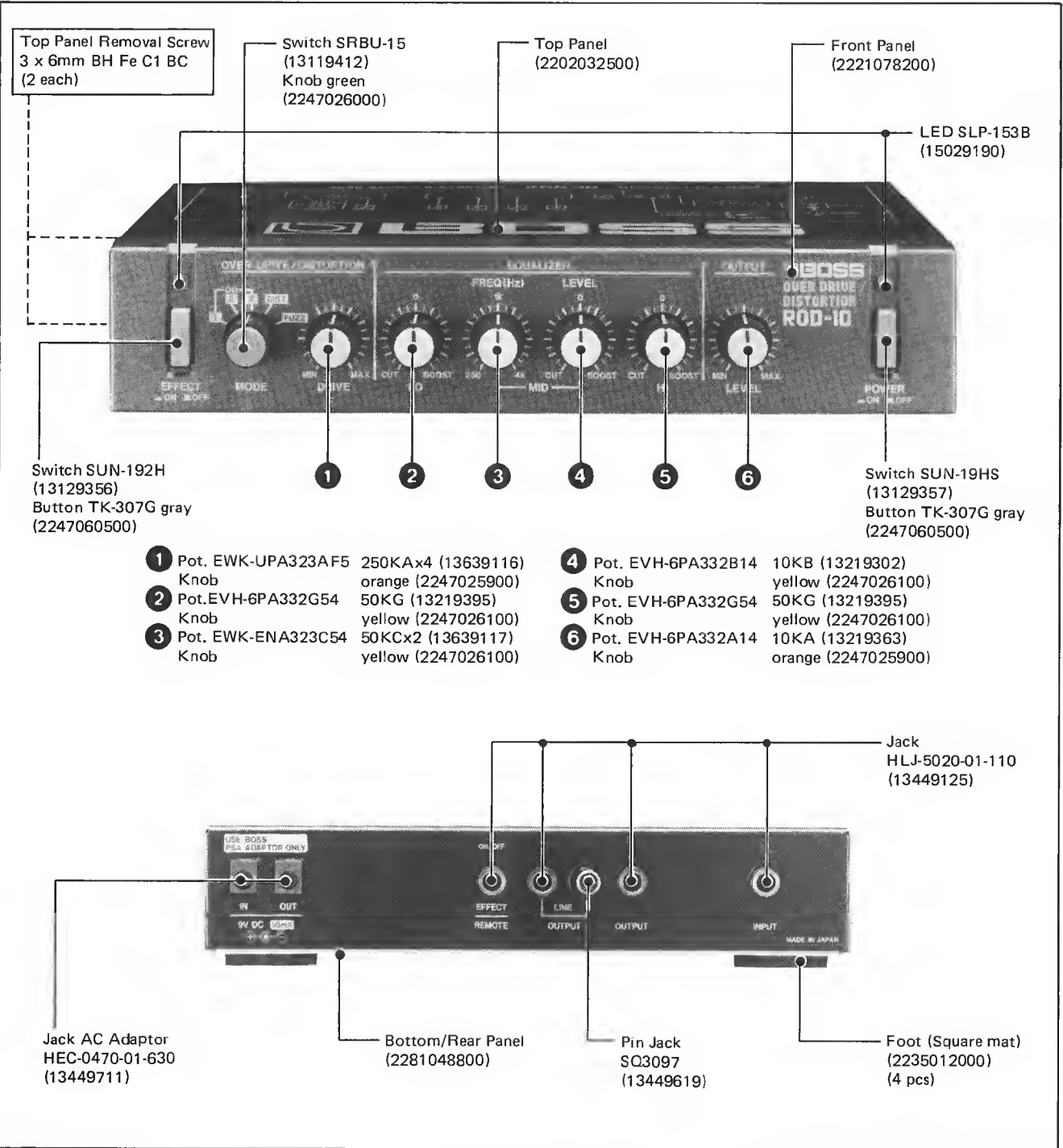
BOSS ROD-10

SERVICE NOTES

First Edition

SPECIFICATIONS

Power Source	: 9V DC (BOSS PSA-120, 220, 240 or RPW-7)
Current Draw	: 50mA @9V
Input Level/Impedance	: -20dBm/1MΩ
Output Level/Impedance	: -20dBm/2KΩ
Output Load Impedance	: 10KΩ or more
Residual Noise	: -80dBm or less @ EFFECT OFF -70dBm or less @ MODE ODI, II -60dBm or less @ MODE ODIII -55dBm or less @ MODE DIST -65dBm or less @ MODE FUZZ
Dimensions	: 218 (W) x 169 (D) x 44 (H) mm 8-9/16(W) x 6-11/16(D) x 1-3/4(H) in.
Weight	: 900 g/2 lb.



PARTS LIST

CASING

2202032500	Top Panel
2281048800	Bottom/Real Panel
2221078200	Front Panel
2235012000	Foot (Square mat)

PCB ASSY

7413751000	MT BOARD (pcb 2292039900)
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KNOB, BUTTON

2247060500	Button TK-307G	gray	EFFECT, POWER
2247025900	Knob	orange	DRIVE, LEVEL
2247026000	knob	green	MODE
2247026100	knob	yellow	LO, MID FREQ, MID LEVEL, HI

POTENTIOMETER

13219302	EVH-6PA332B14	10KB	MID, LEVEL
13219363	EVH-6PA322A14	10KA	OUTPUT, LEVEL
13219395	EVH-6PA322G54	50KG	LO, HI
13639116	EWK-UPA323AF5	250KA x 4	DRIVE
13639117	EWK-ENA323C54	50KC x 2	MID, FREQ

SWITCH

13129356	SUN-192H		EFFECT
13129357	SUN-19HS		POWER
13119412	SRBU-15	rotary	MODE

JACK

13449125	HLJ-0520-01-110	phone(mono)	REMOTE, LINE OUT
13449619	SQ3097	pin	OUTPUT, INPUT
13449711	HEC-0470-01-630		LINE OUT
			9V DC IN, 9V DC OUT

IC

15189189	μ PC4570HA		OP amp
15189136	M5218L		OP amp

TRANSISTOR

15119105	2SA733-P	PNP
15119111	2SA970-GR	PNP
15129108	2SC945-P	NPN
15129120	2SC2240-GR	NPN
15129136	2SC2878	NPN
15139106	2SK117-GR	FET
15139101	2SK30A-Y	FET

DIODE

15019209	S5500G	rectifier
15019125	1SS-133	
15019304	RD6.2JB-2	zener
15029190	SLP-153B	LED red

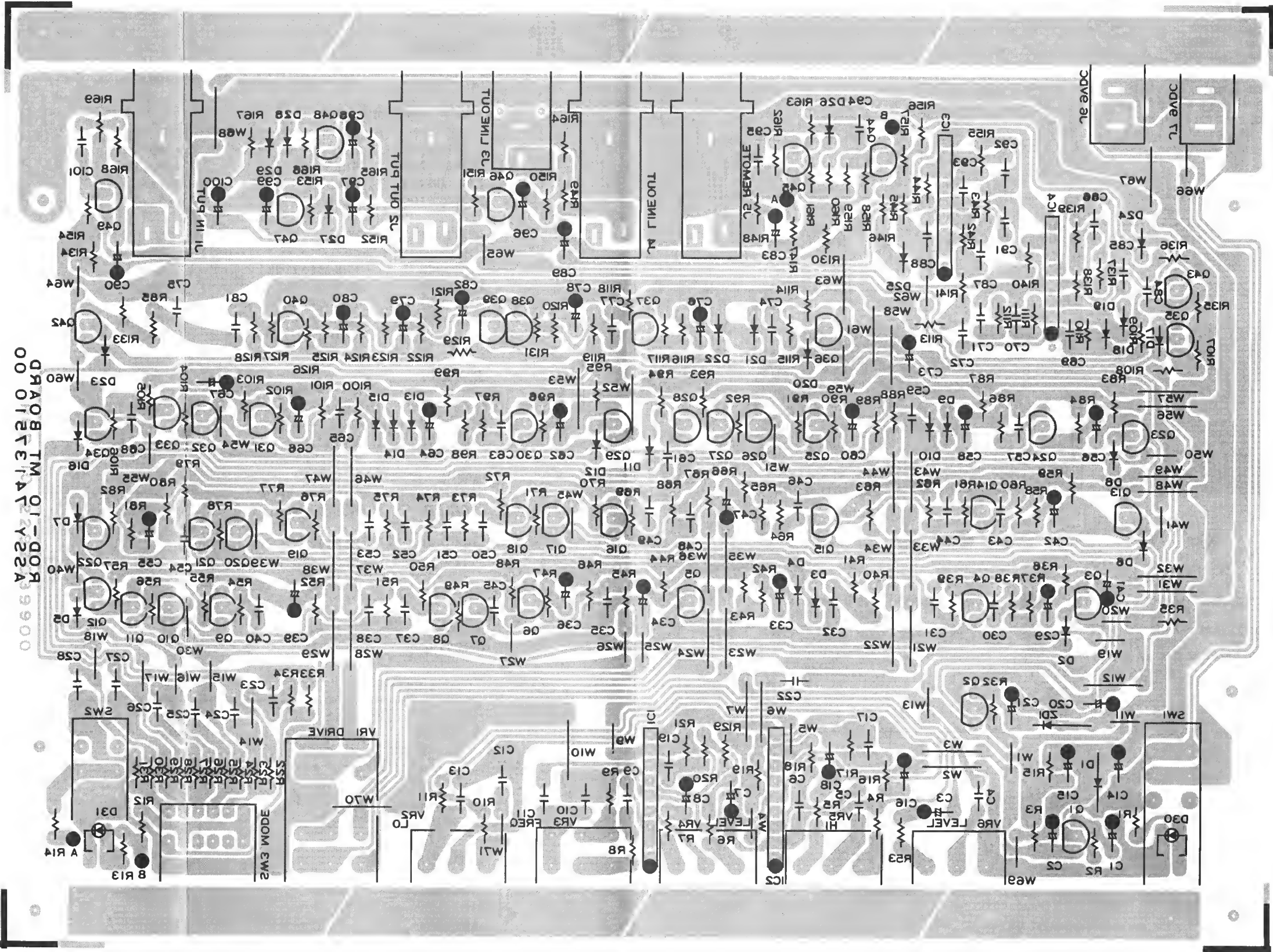
MISCELLANEOUS

2348017400	DC Cord L-500	50 cm
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

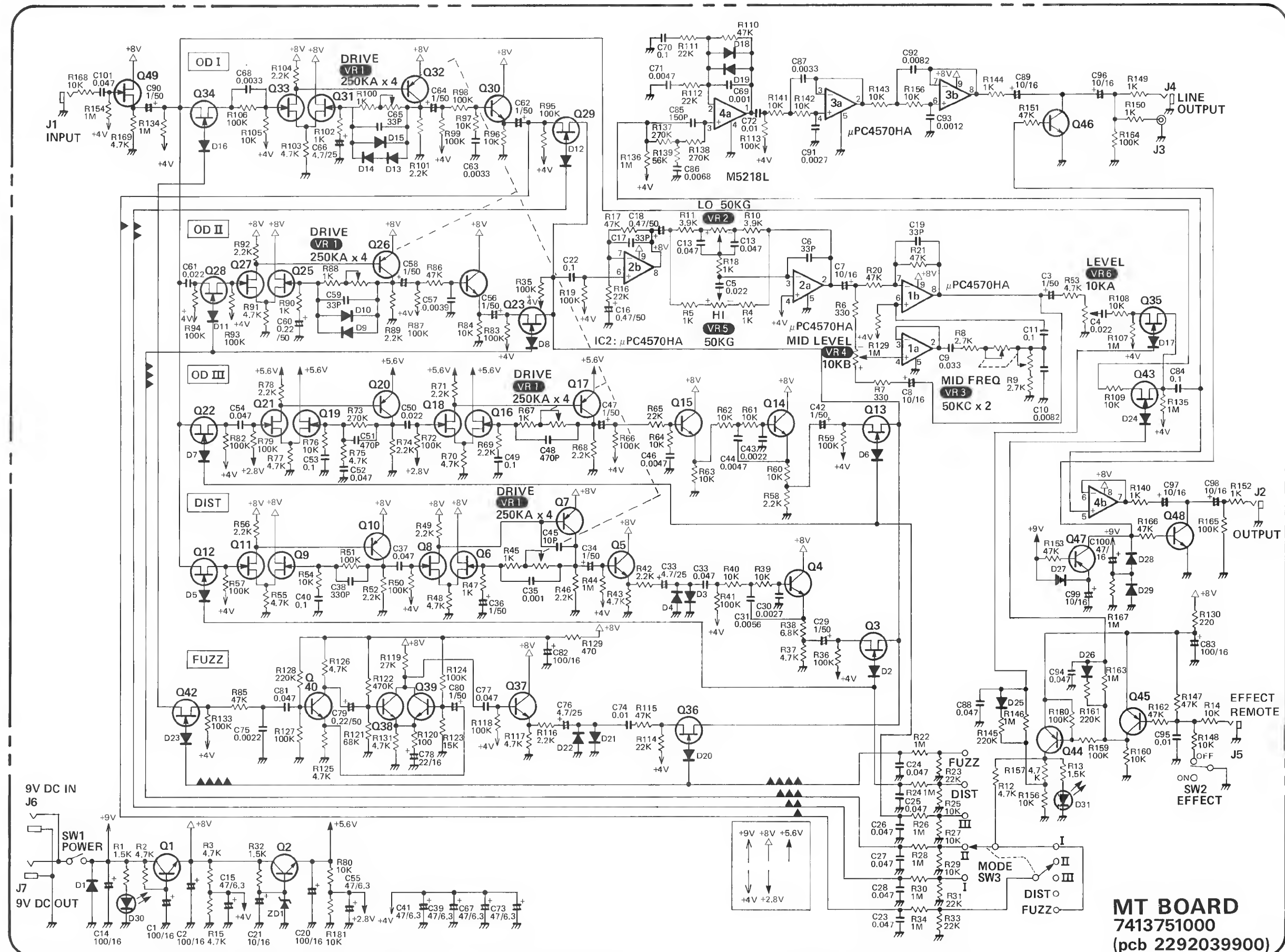
A
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MT BOARD
7413751000
(pcb 2292039900)



View from foil side

CIRCUIT DIAGRAM



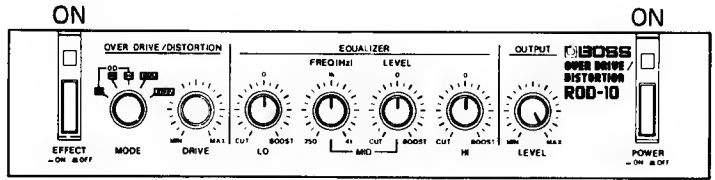
Q1,2...2SC945-P Q3,12,13,22,23,28,29,34,35,36,42,43...2SK30A-Y

Q4,5,14,15,24,30,37,38,39,40...2SC2240-GR Q46,48...2SC2878 Q44,45,47...2SA733-P

Q6,8,9,11,16,18,19,21,25,27,31,33,49...2SK117-GR Q7,10,17,20,26,32...2SA970-GR

1. WAVEFORM CHECK

1-1. Set controls as shown below.



1-2. Connect an audio generator to INPUT jack and feed a 20mVpp, 200Hz squarewave.

1-3. Connect a scope to OUTPUT jack and verify each waveform with both MODE and DRIVE set as shown in the table below.

[RANGE: 2V/DIV, 1ms/DIV
5V/DIV, 1ms/DIV ... with ODIII MAX]

MODE	DRIVE		
	MIN	CENTER	MAX
ODI	15mVpp 	250mVpp 	600mVpp
	70mVpp 	700mVpp 	1Vpp
	450mVpp 	1.4Vpp 	2Vpp
ODII	500mVpp 	900mVpp 	1.2Vpp
	20mVpp 	500mVpp 	600mVpp
	500mVpp 	900mVpp 	1.2Vpp
ODIII	500mVpp 	900mVpp 	1.2Vpp
	20mVpp 	500mVpp 	600mVpp
	500mVpp 	900mVpp 	1.2Vpp
DIST	500mVpp 	900mVpp 	1.2Vpp
	20mVpp 	500mVpp 	600mVpp
	500mVpp 	900mVpp 	1.2Vpp
FUZZ	500mVpp 	900mVpp 	1.2Vpp
	20mVpp 	500mVpp 	600mVpp
	500mVpp 	900mVpp 	1.2Vpp

[レンジ: 2V/DIV, 1ms/DIV
5V/DIV, 1ms/DIV.....ODIII MAX時]

1. 出力波形の確認

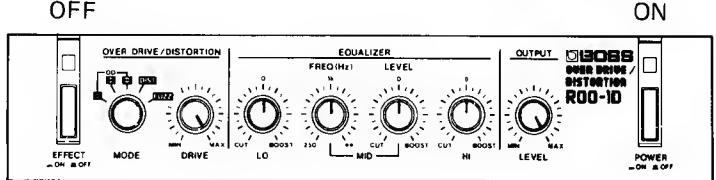
1-1. 下記の通りセッティングする。

1-2. INPUTジャックにオーディオ発振器を接続し、200Hz、20mVppの矩形波を印加する。

1-3. OUTPUTジャックにオシロスコープを接続し、各モードごとにDRIVEつまみを回しMIN、中央、MAXの時の波形を確認する。

2. RESIDUAL NOISE CHECK

2-1. Set controls as shown below.



2-2. Check noise output level according to the table below.

EFFECT	MODE	VOLTMETER TO:	NOISE LEVEL
OFF	unconditional 任意の位置	LINE OUT	-80dBm or less (No pulse noise)
ON	ODI	OUTPUT	-70dBm or less
	ODII		-70dBm or less
	ODIII		-60dBm or less
	DIST		-55dBm or less
	FUZZ		-65dBm or less

2. 残留ノイズ確認

2-1. 下記の通りセッティングする。

2-2. 下表の様にそれぞれEFFECT、MODEを設定し、ミリボルを各ジャック (LINE OUT 又は OUTPUT) に接続してノイズレベルが表示値以下であることを確認する。

ROD-10 CORRECTION

正誤表

